

Amendments to Specification

[0025] Figure 16 is an XRD pattern obtained from ~~[[for]]~~ a ceramic formed from a preceramic polymer ~~[[formed]]~~ according to the invention showing a broad featureless diffraction line at all ranges of 2θ , evidencing that a structural transformation has been retarded up to 1600°C.

[0054] The XRD pattern (FIG. 16) for the ceramic ~~[[polymer]]~~ formed according to the invention shows a broad featureless diffraction line at all ranges of 2θ typical for amorphous phases, evidencing that structural transformation has been retarded up to 1600°C. The broad peak is attributed to the amorphous nature of the ceramic ~~[[polymer]]~~. From this pyrolysis temperature, it can be assumed that the polymer initiates the crystallization owing to the appearance of tiny sharp peaks at $2\theta = 28^\circ, 47^\circ$, and 56° .